

# **RCI Controlled Therapeutic Medication**

## **Schedule**

Please be advised that withdrawal times are recommended guidelines and reliance on these guidelines is not a guarantee of compliance with Illinois Racing Board medication rules (see 11 Illinois Administrative Code 603). The use of the following therapeutic medications shall be permitted effective **August 1, 2015**. Please note the effective date for the five corticosteroids is **October 4, 2015**. The official test samples may contain the following therapeutic medications in concentrations less than the threshold levels:

### **ACEPROMAZINE**

Withdrawal Guideline: 48 hours  
**Threshold:** 10 ng/ml as 2-(1-hydroxyethyl) promazine sulfoxide (HEPS) in urine  
Dosing Specifications: Single IV dose of acepromazine at 0.05 mg/kg

### **ALBUTEROL**

Withdrawal Guideline: 72 hours  
**Threshold:** 1 ng/ml in urine  
Dosing Specifications: 720 mcg total dose intra-nasal only. Based upon dosing up to 4 times per day. Administration other than via intra-nasal is not recommended.

### **BETAMETHASONE**

Effective October 4, 2015  
Withdrawal Guideline: 7 days  
**Threshold:** 10 pg/ml in serum or plasma  
Dosing Specifications: IA administration of 9 mg of Betamethasone Sodium Phosphate and Betamethasone Acetate Injectable Suspension, USP (American Regent product #0517-0720-01). IM administration of betamethasone acetate will result in serum or plasma concentrations that will exceed the threshold level for weeks or even months.

### **BUTORPHANOL**

Withdrawal Guideline: 48 hours  
**Threshold:** 300 ng/ml of total butorphanol in urine  
Dosing Specifications: Single IV dose of butorphanol as Torbugesic® (butorphanol tartrate) at 0.1 mg/kg

### **CLENBUTEROL**

**Withdrawal Guideline:** 14 days for Thoroughbred and Quarter horses  
4 days for Standardbred horses

**Threshold:** 140 pg/ml in urine for Thoroughbred and Quarter Horses  
Limit of Detection (which is not less than 10 pg/ml) in serum or plasma for Standardbred horses

**Dosing Specifications:** Oral administration of clenbuterol as Ventipulmin® syrup (Boehringer-Ingelheim Vetmedica Inc., NADA 140-973) at 0.8 mcg/kg twice a day

### **DANTROLENE**

**Withdrawal Guideline:** 48 hours

**Threshold:** 100 pg/ml of 5-hydroxydantrolene in serum or plasma

**Dosing Specifications:** Oral administration of 500 mg of dantrolene as paste (compounding pharmacy) or capsule formulation (Proctor and Gamble)

### **DETOMIDINE**

**Withdrawal Guideline:** 72 hours

**Threshold:** Limit of Detection in plasma

**Dosing Specifications:** Single sublingual dose of detomidine (Domosedan® gel at 40 mcg/kg)

### **DEXAMETHASONE**

Effective October 4, 2015

**Withdrawal Guideline:** 72 hours

**Threshold:** Limit of Detection (which is not less than 5 pg/ml) in serum or plasma

**Dosing Specifications:** IM and IV administration of dexamethasone sodium phosphate or oral administration of dexamethasone at 0.05 mg/kg, regardless of route

### **DICLOFENAC**

**Withdrawal Guideline:** 48 hours

**Threshold:** 5 ng/ml in serum or plasma

**Dosing Specifications:** Five inch ribbon topical application of 1% diclofenac liposomal cream formulation (SurpassTopical Anti-Inflammatory Cream, IDEXX Pharmaceuticals)

### **DIMETHYL SULFOXIDE (DMSO)**

Withdrawal Guideline: 48 hours  
**Threshold:** 10 mcg/ml in serum or plasma  
Dosing Specifications: IV administration

### **FIROCOXIB**

Withdrawal Guideline: 14 days  
**Threshold:** 20 ng/ml in serum or plasma  
Dosing Specifications: Oral administration of firocoxib as EQUIOXX oral paste at a daily dose of 0.1 mg/kg for four days

### **FLUNIXIN**

Withdrawal Guideline: 32 hours  
**Primary Threshold:** 20 ng/ml in serum or plasma  
**Secondary Anti-Stacking Threshold:** 3 ng/ml in serum or plasma  
Dosing Specifications: Single IV dose of flunixin as Banamine® (flunixin meglumine) at 1.1 mg/kg

### **FUROSEMIDE**

Withdrawal Guideline: 4 hours  
**Threshold:** 100 ng/ml in serum or plasma and specific gravity in urine less than 1.010  
Dosing Specifications: Single IV dose of furosemide up to 500 mg

### **GLYCOPYRROLATE**

Withdrawal Guideline: 48 hours  
**Threshold:** 3 pg/ml in serum or plasma  
Dosing Specifications: Single IV dose of 1 mg of glycopyrrolate as Glycopyrrolate Injection, USP (American Regent product #0517-4601-25)

### **ISOFLUPREDONE**

Effective October 4, 2015  
Withdrawal Guideline: 7 days  
**Threshold:** 100 pg/ml in serum or plasma  
Dosing Specifications: 10 mg total dose subcutaneous or 20 mg total dose in one articular space

### **KETOPROFEN**

Withdrawal Guideline: 24 hours  
**Primary Threshold:** 2 ng/ml in serum or plasma  
**Secondary Anti-Stacking Threshold:** 1 ng/ml in serum or plasma  
Dosing Specifications: Single IV dose of ketoprofen as Ketofen® at 2.2mg/kg

### **LIDOCAINE**

Withdrawal Guideline: 72 hours  
**Threshold:** 20 pg/ml of total 30H-lidocaine in serum or plasma  
Dosing Specifications: 200 mg of lidocaine as its hydrochloride salt administered subcutaneously

### **MEPIVACAINE**

Withdrawal Guideline: 72 hours  
**Threshold:** 10 ng/ml of total hydroxymepivacaine in urine  
Dosing Specifications: Single 0.07 mg/kg subcutaneous dose of mepivacaine.

### **METHOCARBAMOL**

Withdrawal Guideline: 48 hours  
**Threshold:** 1 ng/ml in serum or plasma  
Dosing Specifications: Single IV dose of 15 mg/kg methocarbamol as Robaxin® or 5 grams orally. There is a potential for reaction when methocarbamol is administered with phenylbutazone.

### **OMEPRAZOLE**

Withdrawal Guideline: 24 hours  
**Threshold:** 1 ng/ml in urine  
Dosing Specifications: Single oral dose of omeprazole as Gastrogard® at 3.9 mg/kg

### **PHENYLBUZAZONE**

Withdrawal Guideline: 24 hours  
**Primary Threshold:** 2 mcg/ml in serum or plasma  
**Secondary Anti-Stacking Threshold:** 0.3 mcg/ml in serum or plasma  
Dosing Specifications: Single IV dose of phenylbutazone at 4.0 mg/kg

**PREDNISOLONE** Effective October 4, 2015  
Withdrawal Guideline: 48 hours  
**Threshold:** 1 ng/ml in serum or plasma  
Dosing Specifications: 1 mg/kg orally

**PROCAINE PENICILLIN**

(mandatory notification to the IRB at time of administration)  
Withdrawal Guideline: Shall not be administered after the horse is entered to race.  
**Threshold:** 25 ng/ml of procaine in serum or plasma  
Dosing Specifications: IM administration

**TRIAMCINOLONE ACETONIDE**

Effective October 4, 2015  
Withdrawal Guideline: 7 days  
**Threshold:** 100 pg/ml in serum or plasma  
Dosing Specifications: Total dose of 9 mg in one articular space. IM administration of triamcinolone acetonide will result in serum or plasma concentrations that will exceed the threshold level for weeks or even months.

**XYLAZINE**

Withdrawal Guideline: 48 hours  
**Threshold:** 10 pg/ml in serum or plasma  
Dosing Specifications: IV administration.

**ABBREVIATIONS:**

ng - nanogram      IA – intra-articular  
ml - milliliter      IM – intramuscular  
mg - milligram      IV – intravenous  
pg - picogram  
mcg - microgram  
kg - kilogram